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FIG. 1

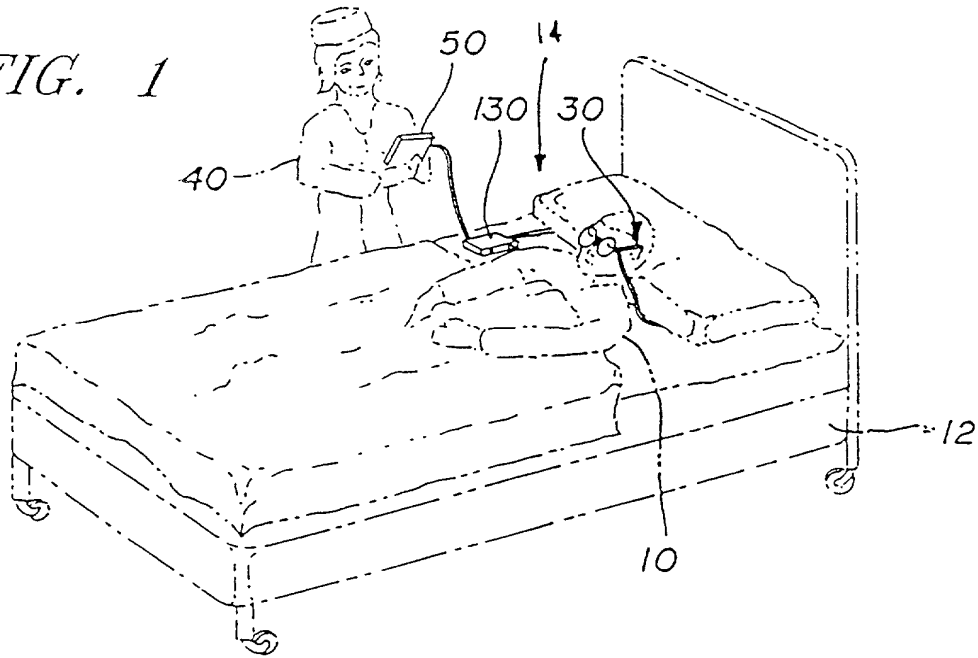
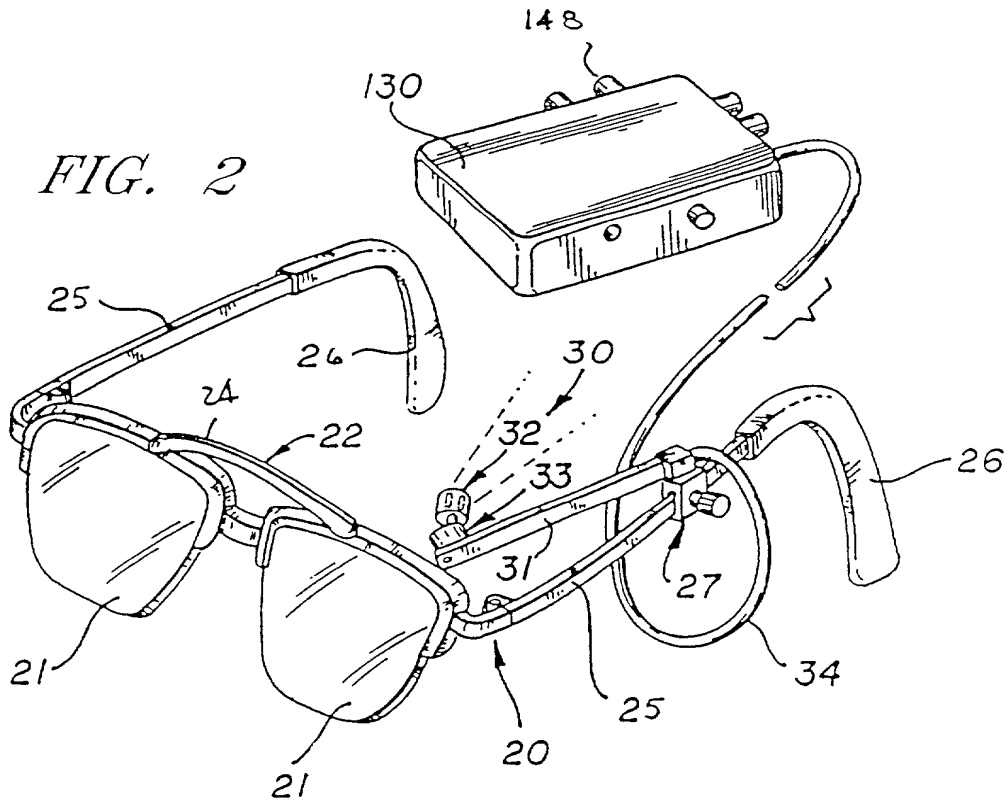


FIG. 2



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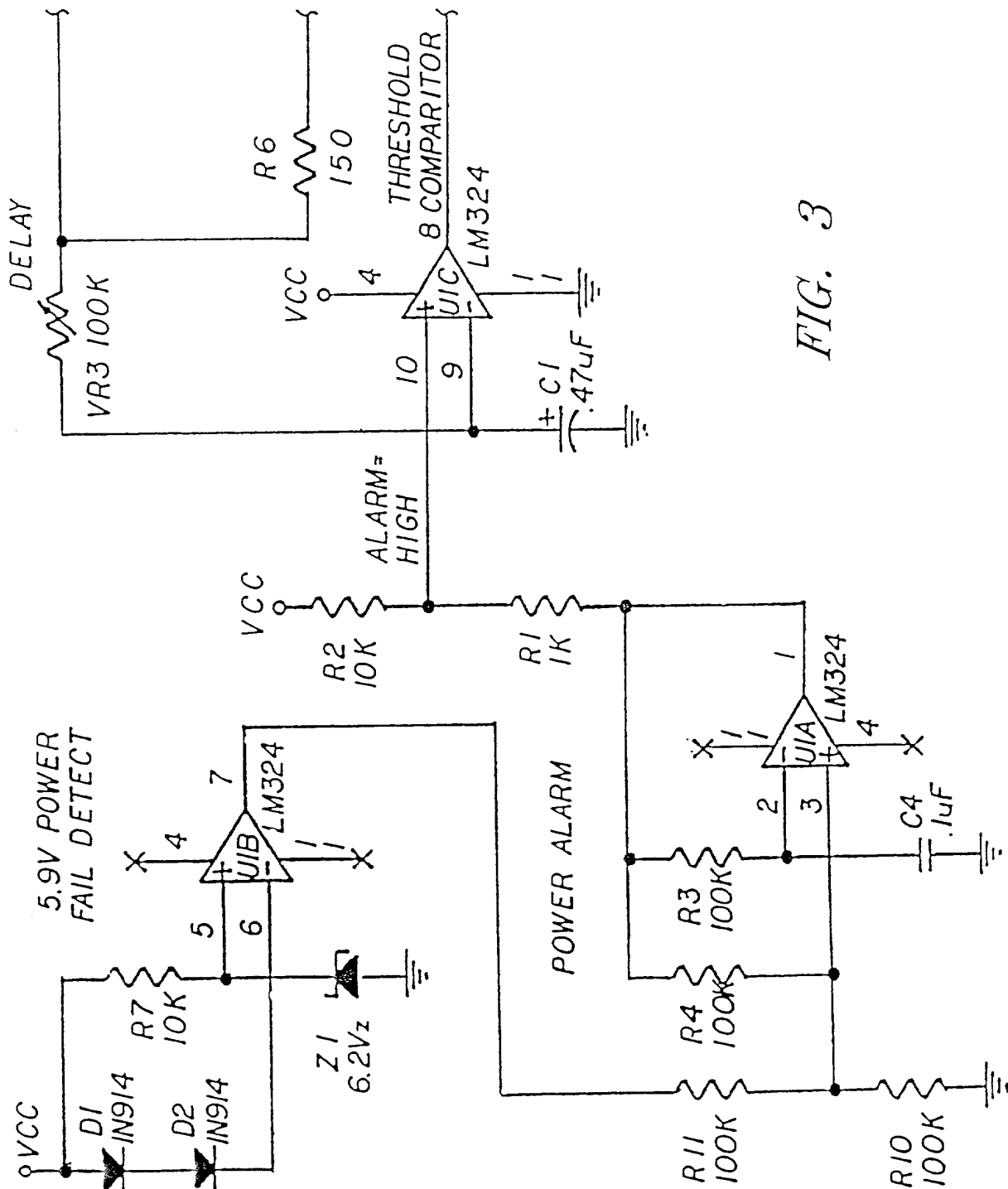


FIG. 3

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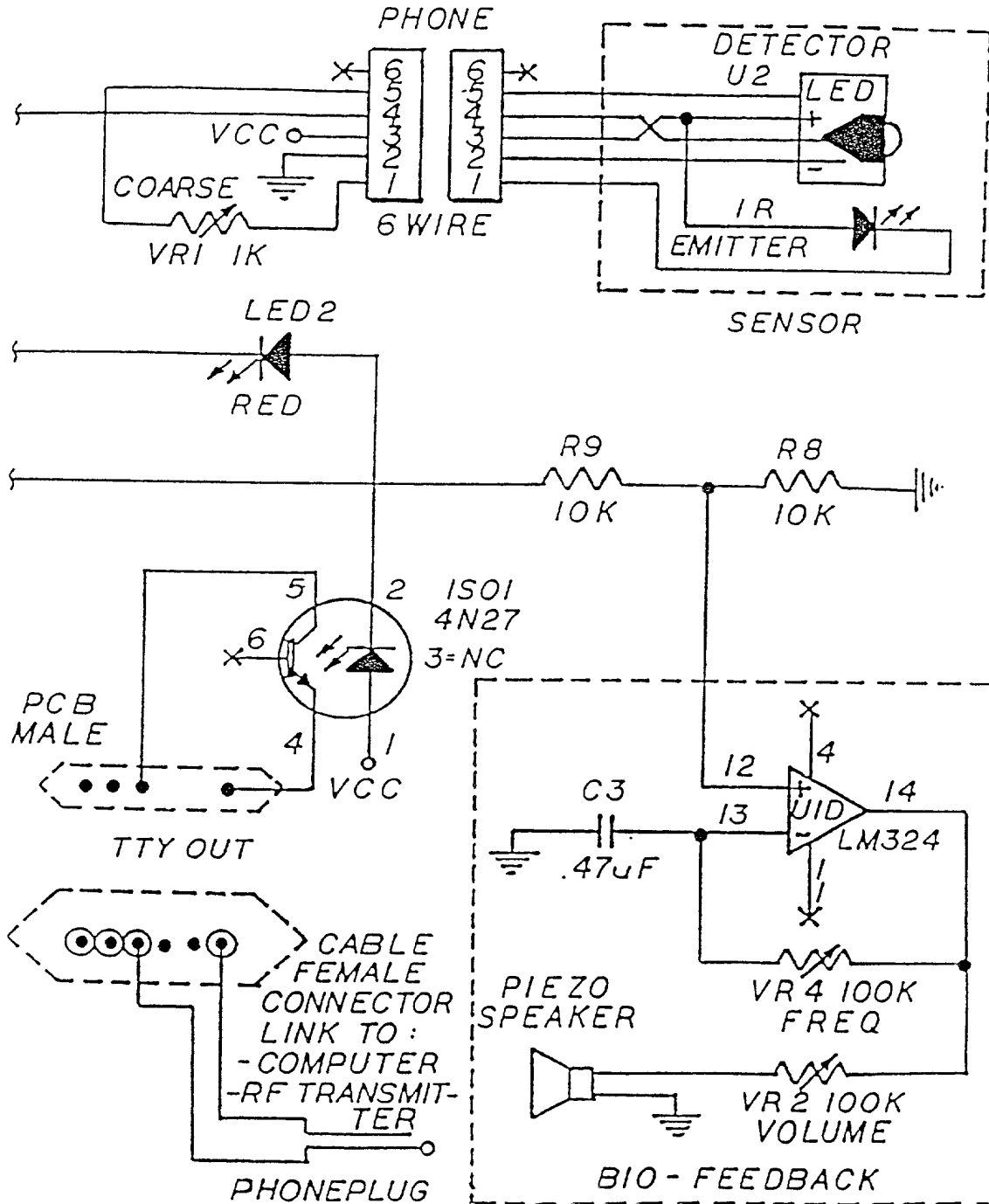
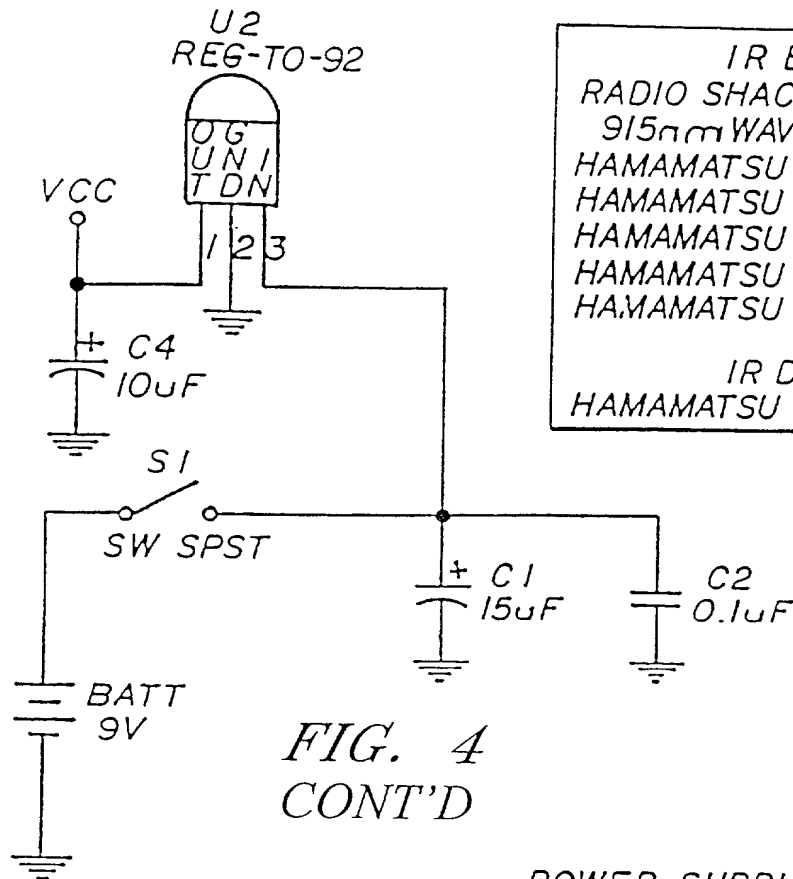


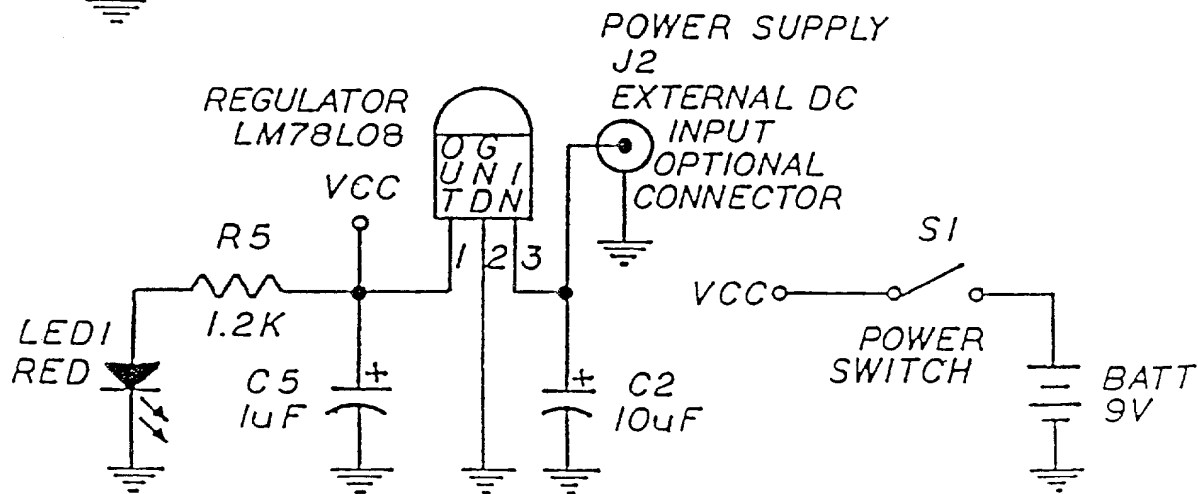
FIG. 3 CONT'D

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FIG. 4  
CONT'D

IR EMITTERS	
RADIO SHACK	#276-142
915nm WAVE LENGTH	
HAMAMATSU	#L1909
HAMAMATSU	#L1915-01
HAMAMATSU	#L2791-02
HAMAMATSU	#L2792-02
HAMAMATSU	#L2959
IR DETECTOR	
HAMAMATSU	#54282-11

FIG. 3  
CONT'DFIG. 3  
CONT'D

T04250" 8E204260

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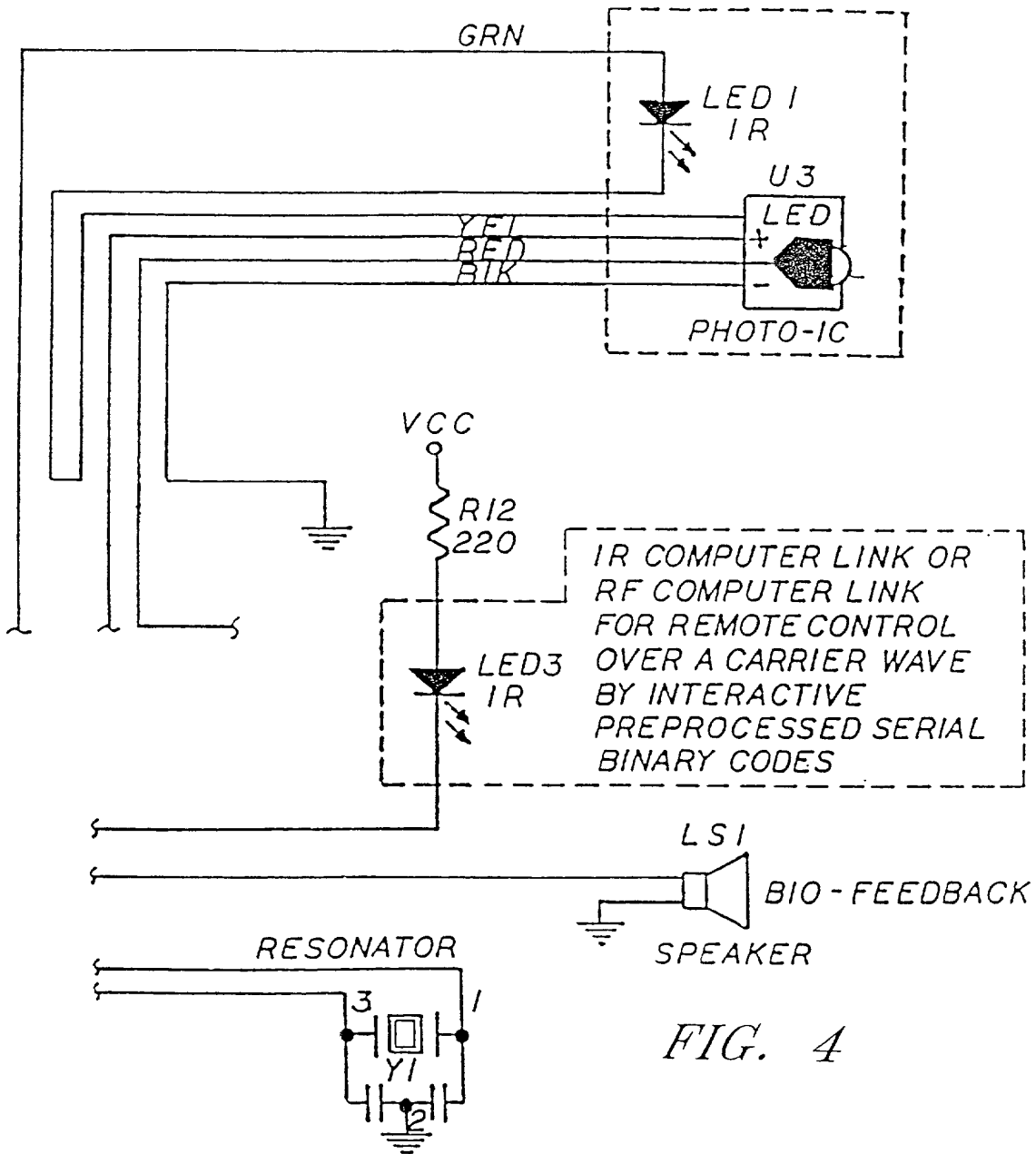
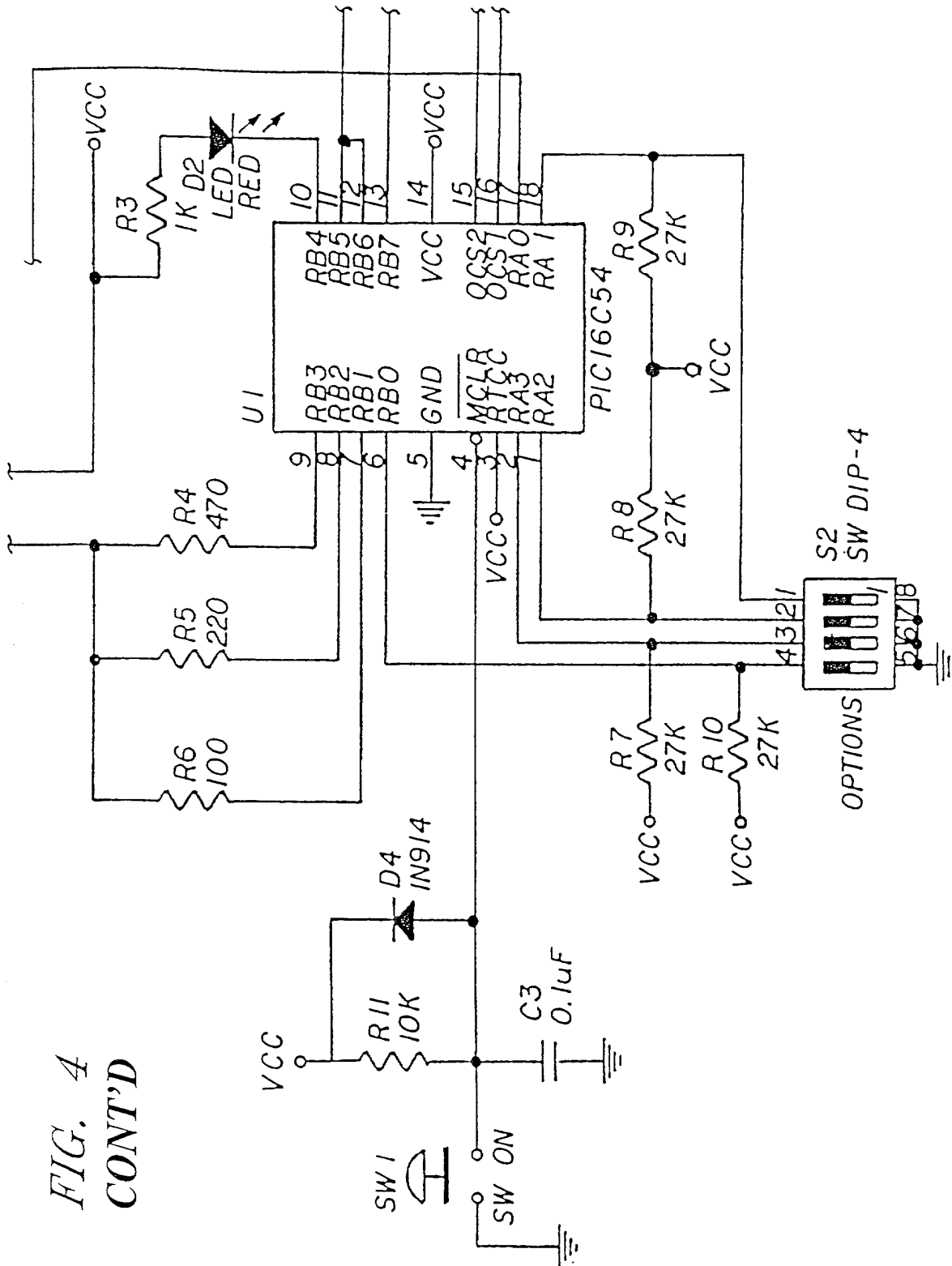


FIG. 4

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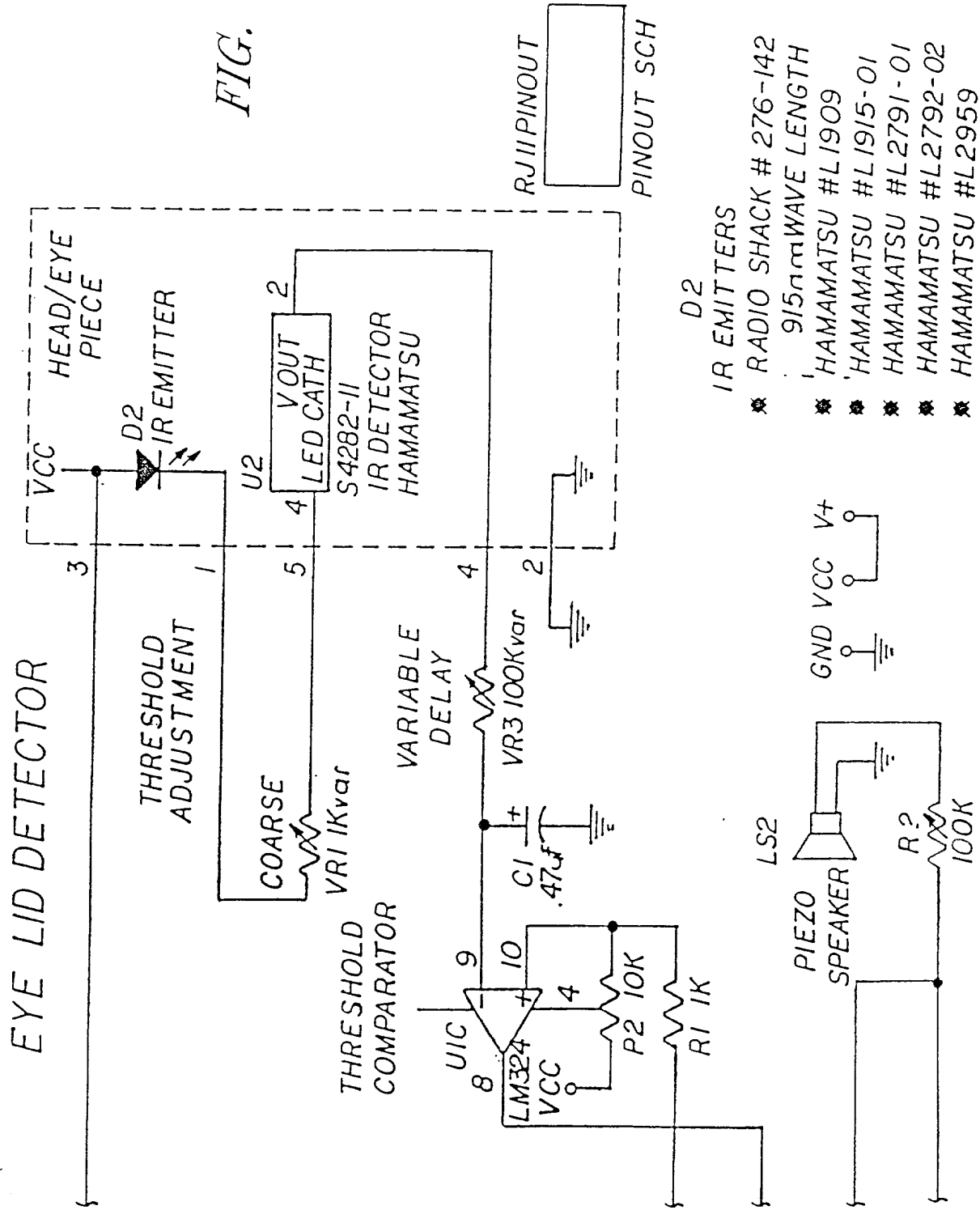
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FIG. 4  
 CONT'D



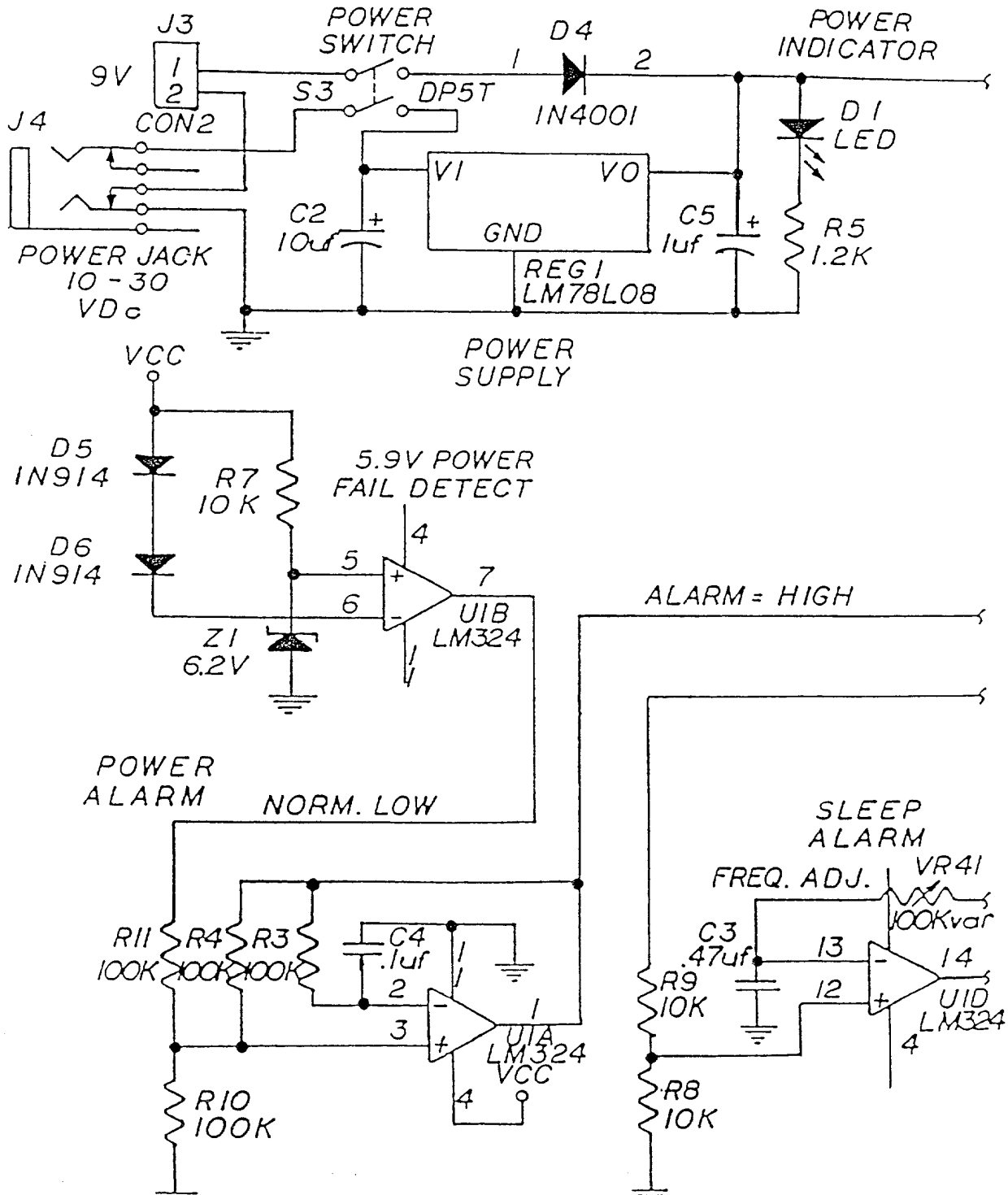
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FIG. 5



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FIG. 5  
CONT'D





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FIG. 8

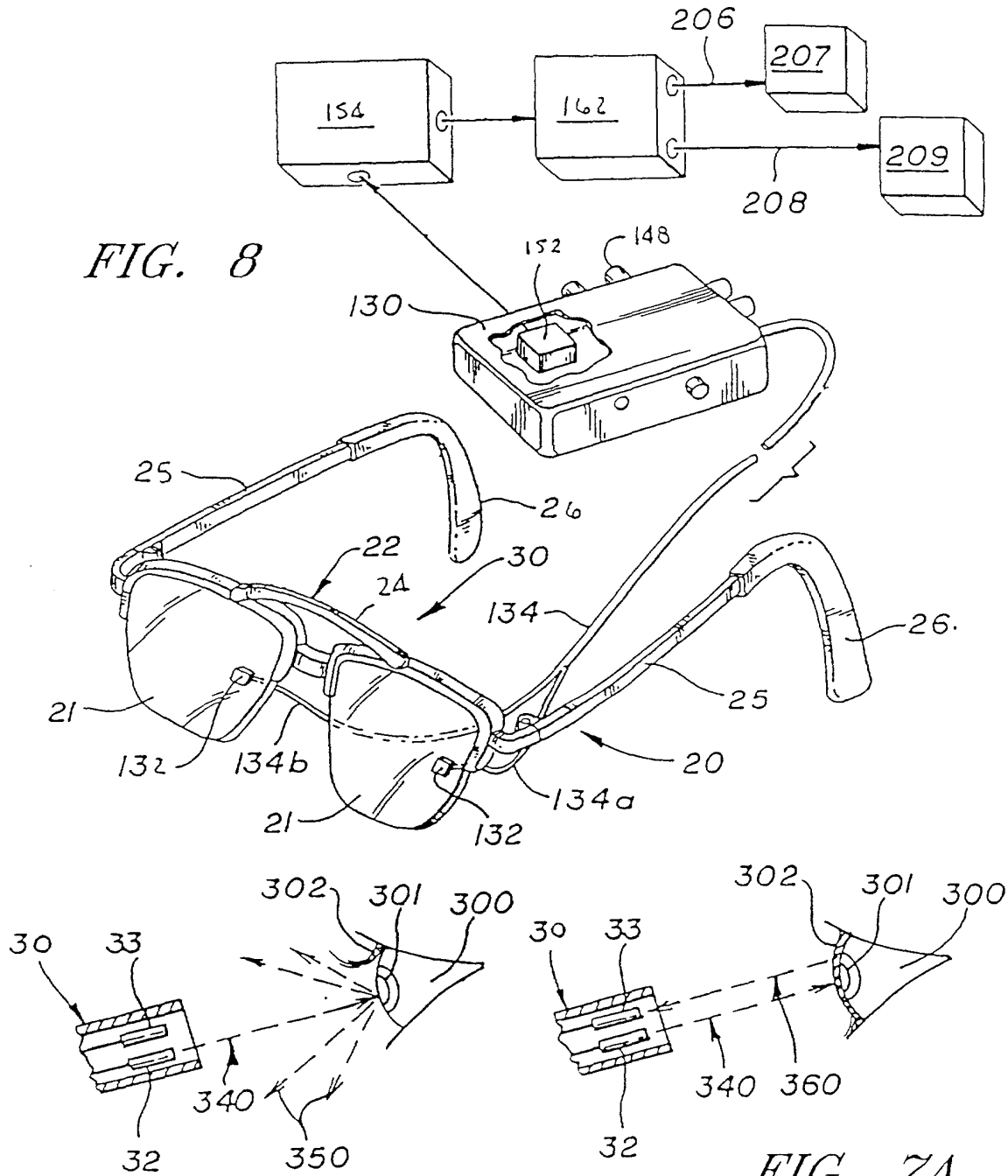


FIG. 6A

FIG. 7A

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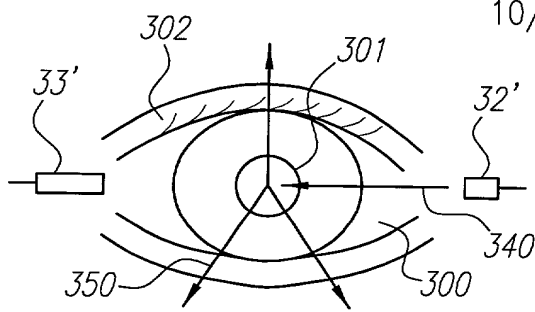


FIG. 6B

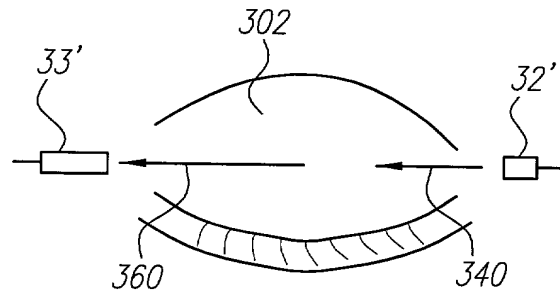


FIG. 7B

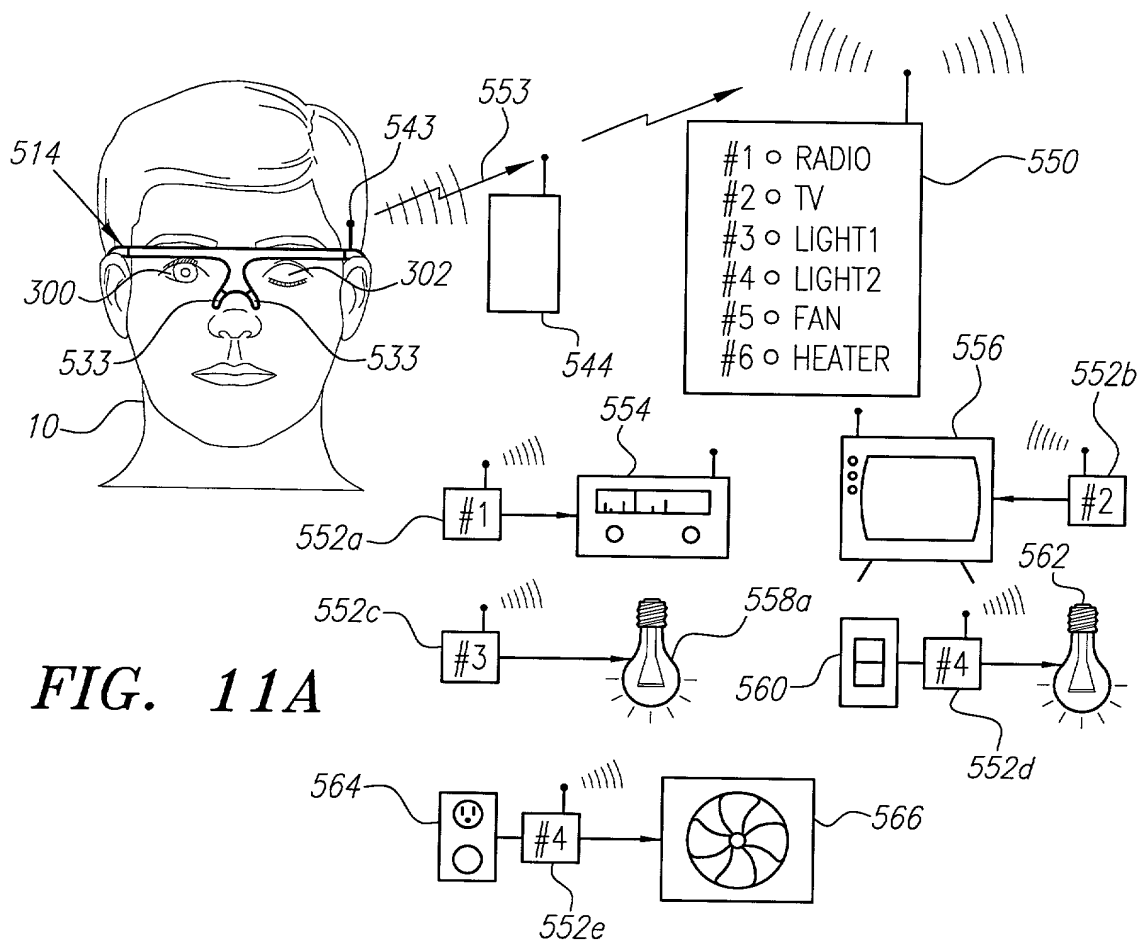


FIG. 11A

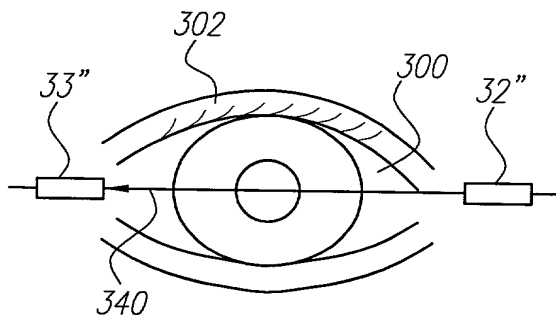


FIG. 6C

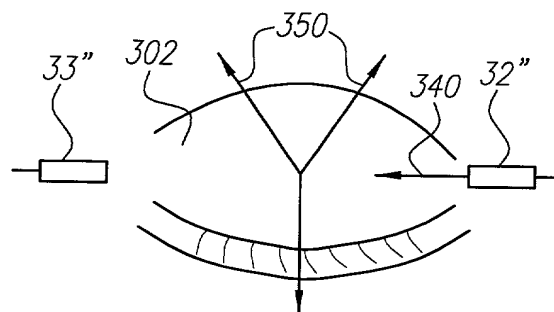


FIG. 7C

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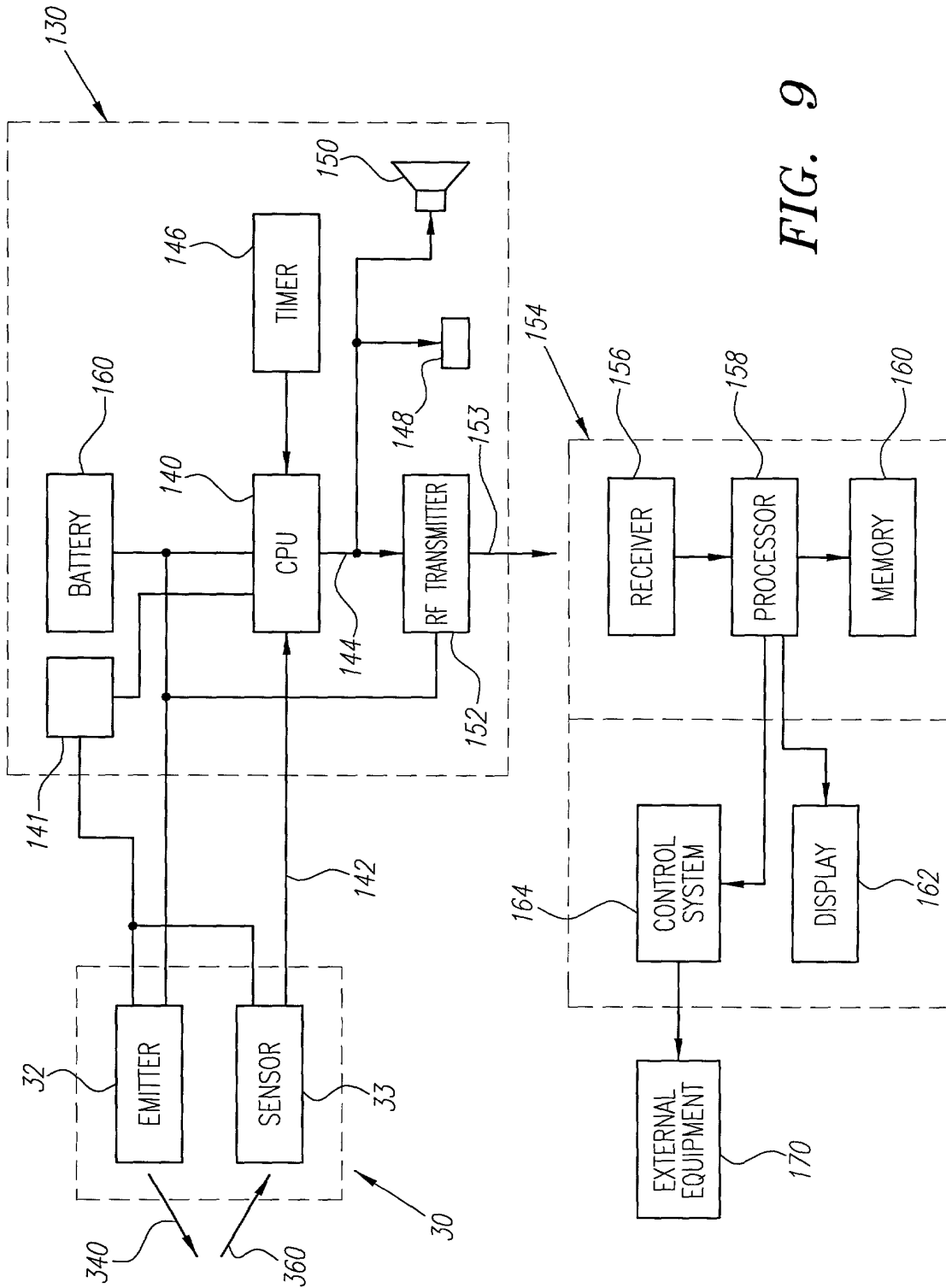


FIG. 9

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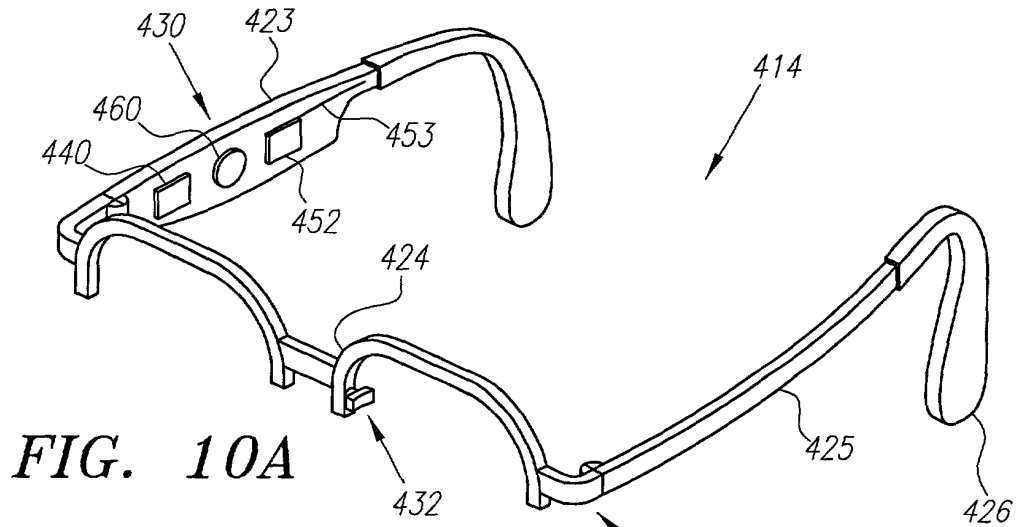


FIG. 10A

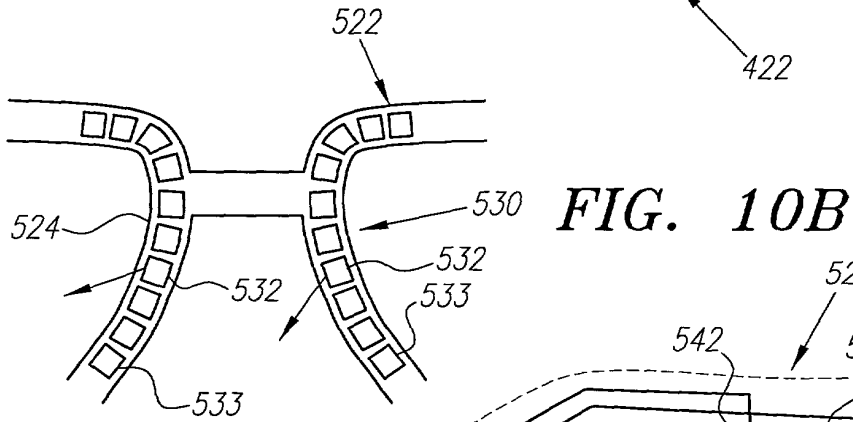


FIG. 10B

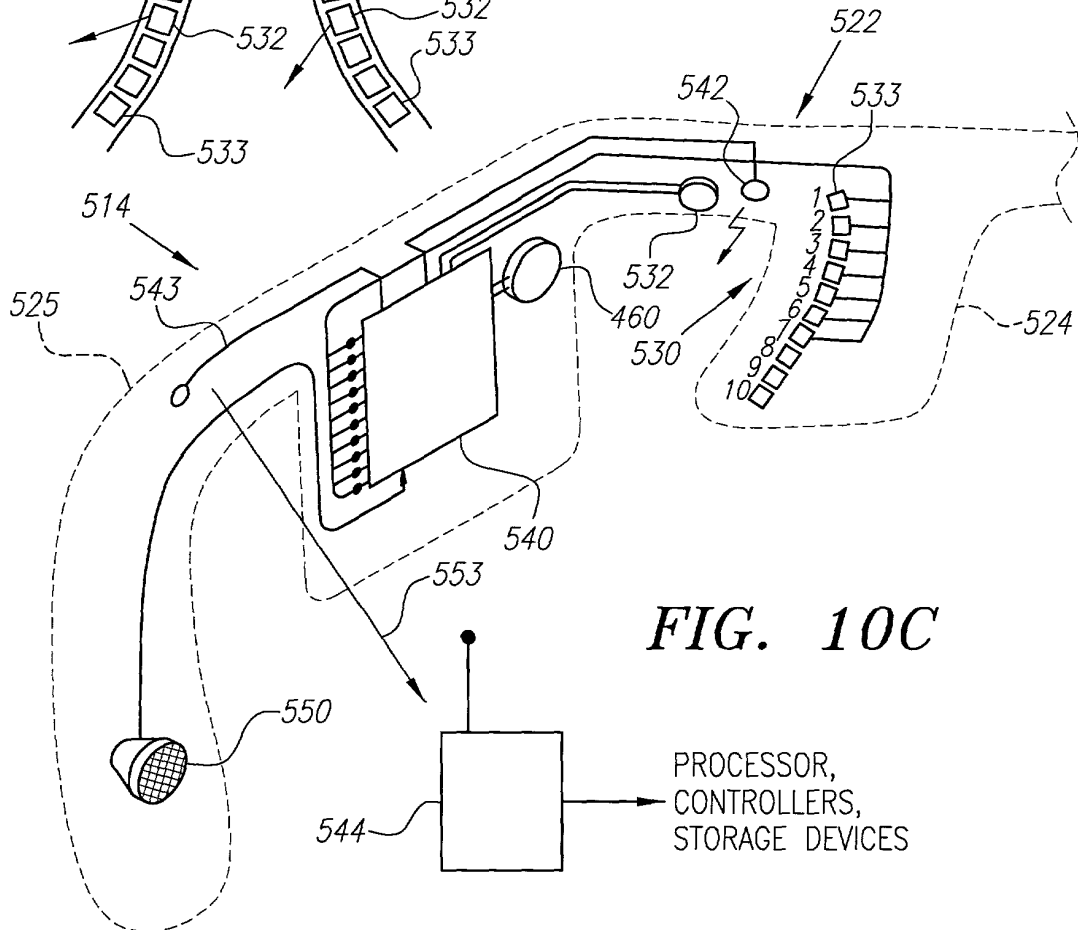
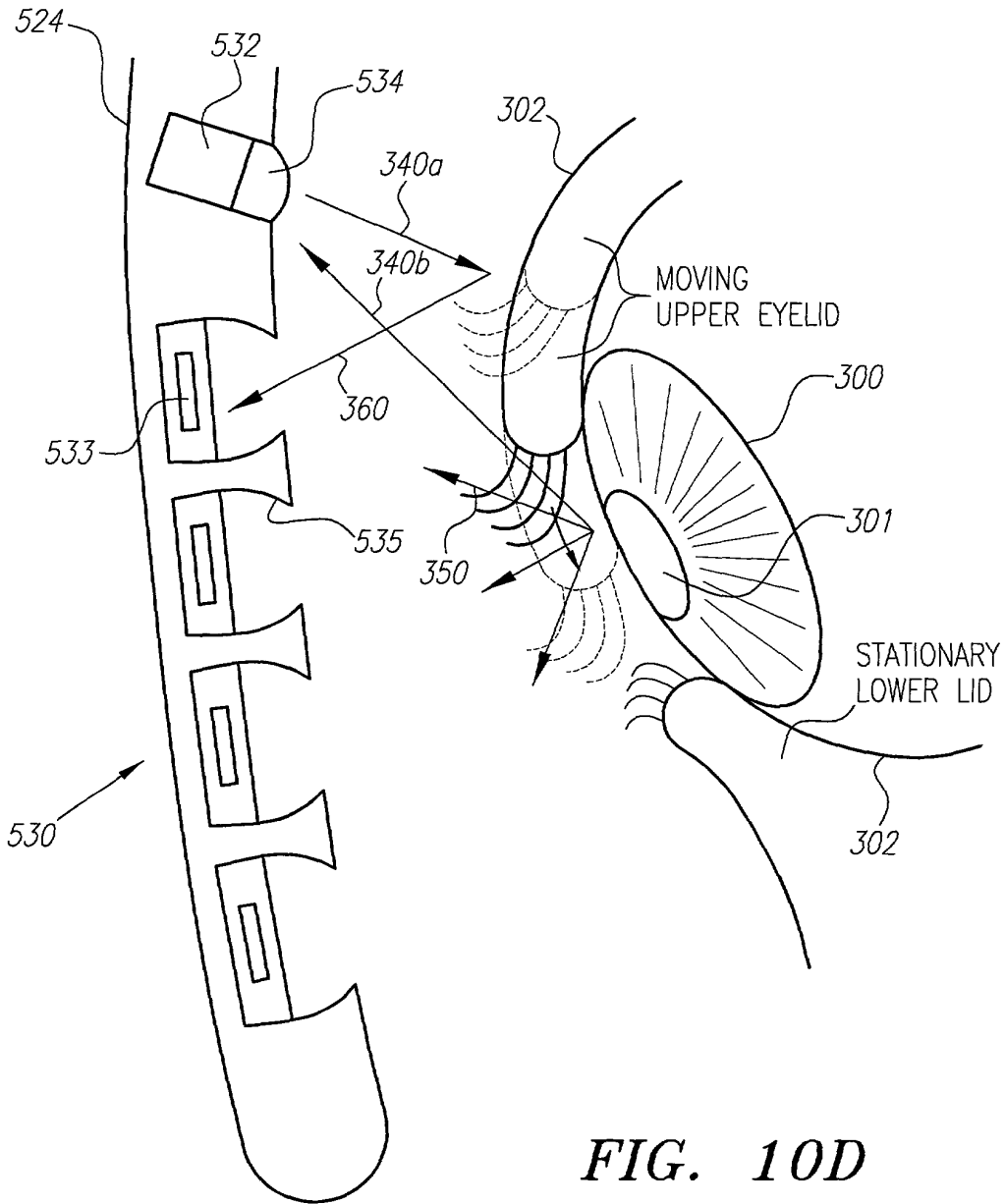


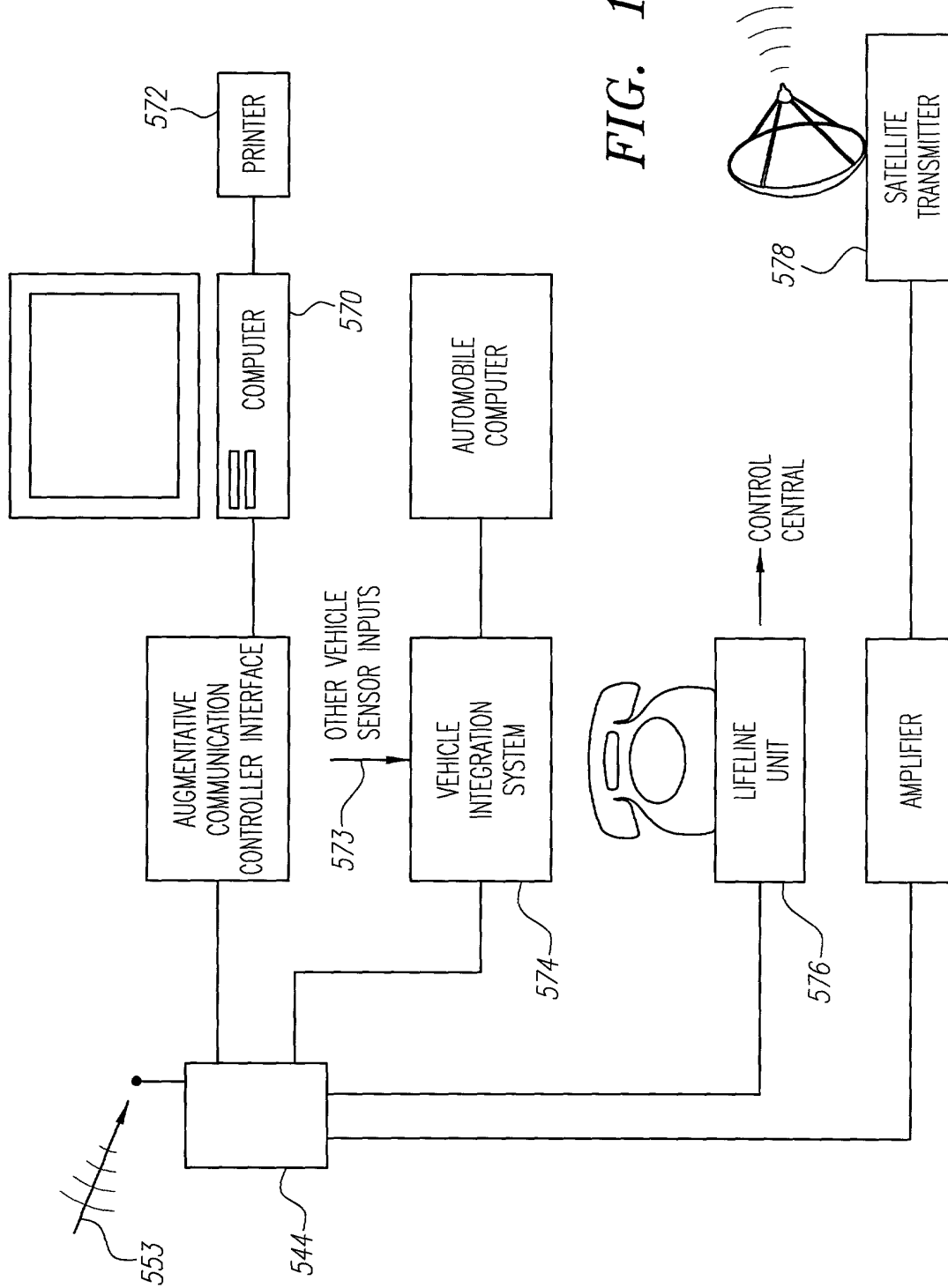
FIG. 10C

PROCESSOR,  
CONTROLLERS,  
STORAGE DEVICES



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**FIG. 11B**



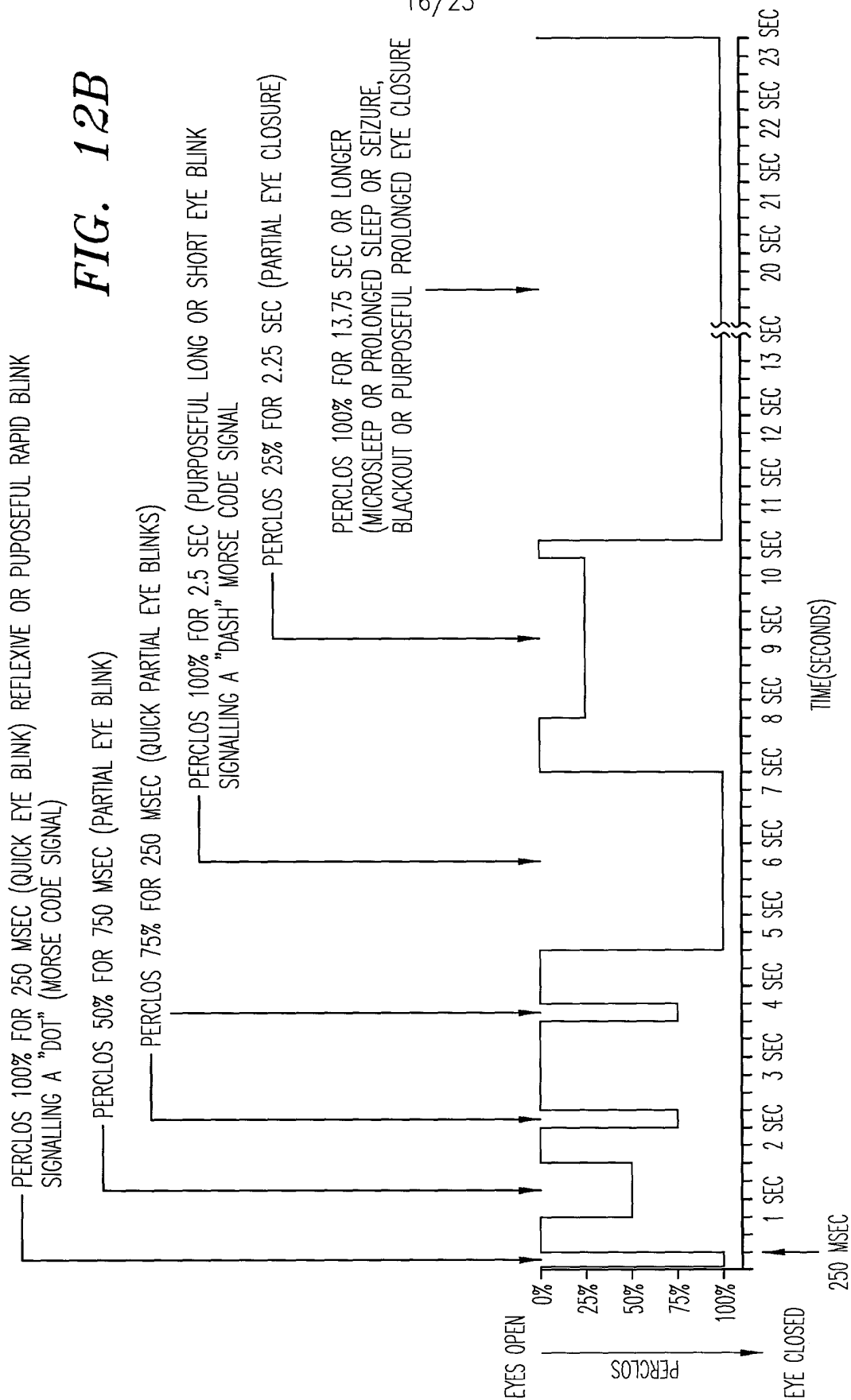
SENSOR NO.	SENSOR NO.	EYE LID POSITION	NUMBER OF SENSORS ACTIVATED	ASSOCIATED SQUARE WAVE SIGNAL GENERATED
0		EYE FULLY OPEN	1 SENSOR DETECTOR	
25		EYE LID 25% CLOSURE	2 SENSOR DETECTORS	
50		EYE LID 50% CLOSURE	3 SENSOR DETECTORS	
75		EYE LID 75% CLOSURE	4 SENSOR DETECTORS	
100		EYE LID 100% CLOSURE	5 SENSOR DETECTORS	

FIG. 12A

**FIG. 12A**

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FIG. 12B





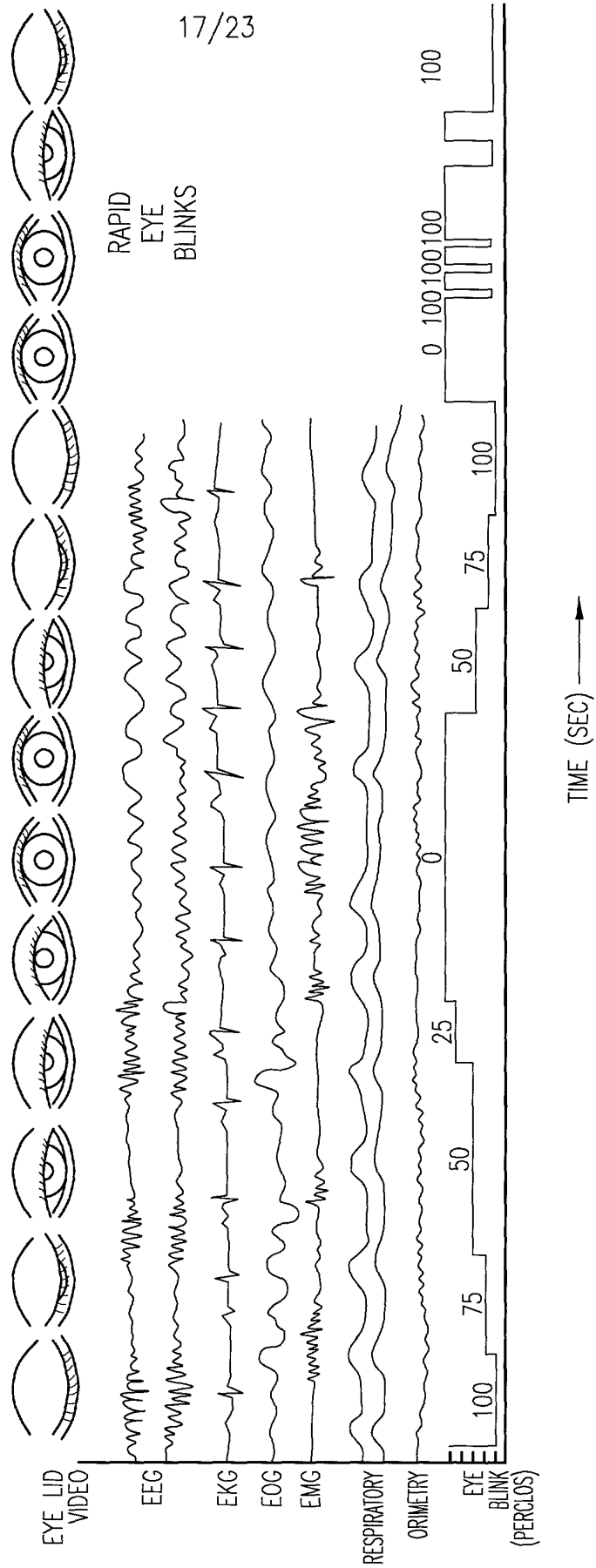


FIG. 12C

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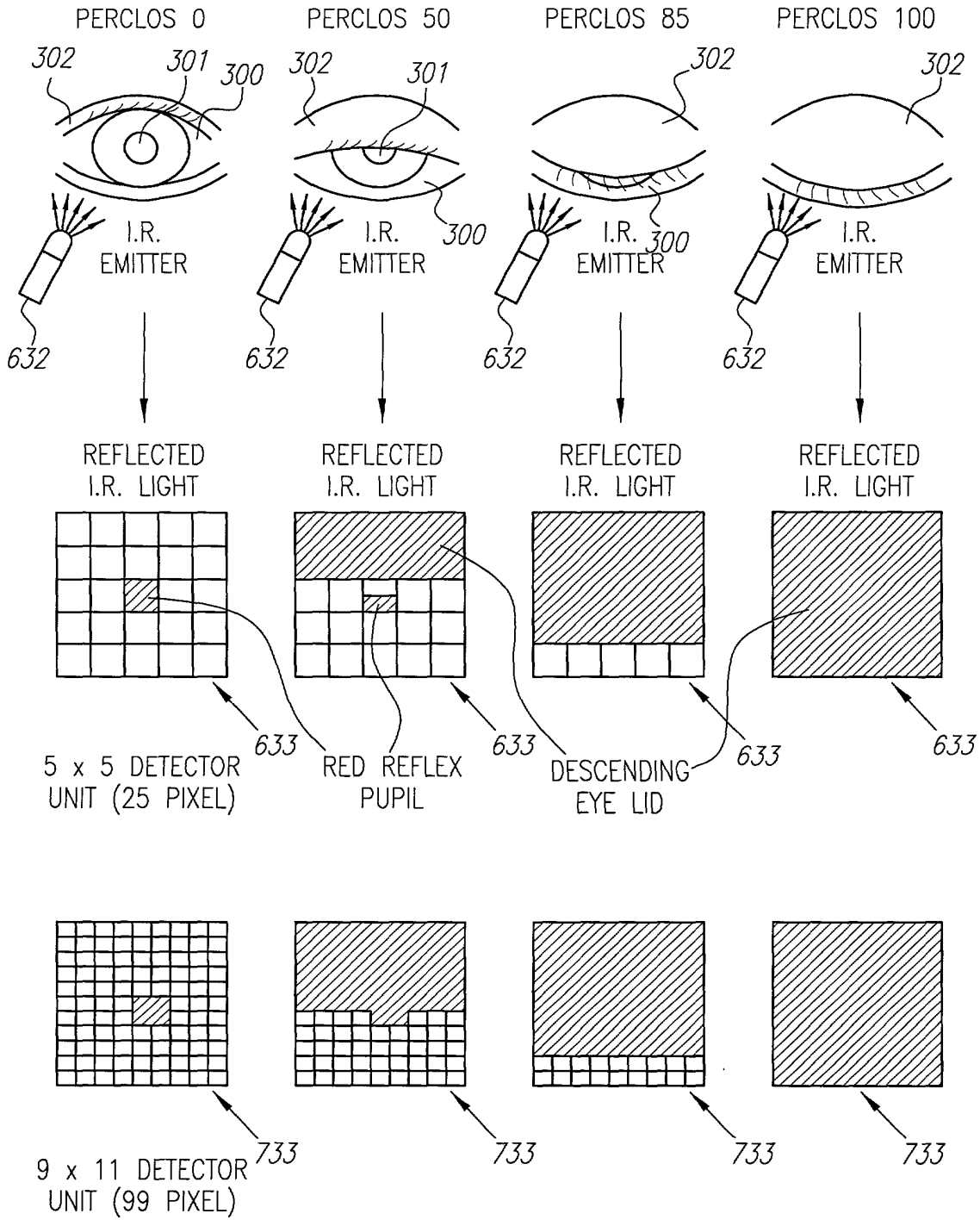
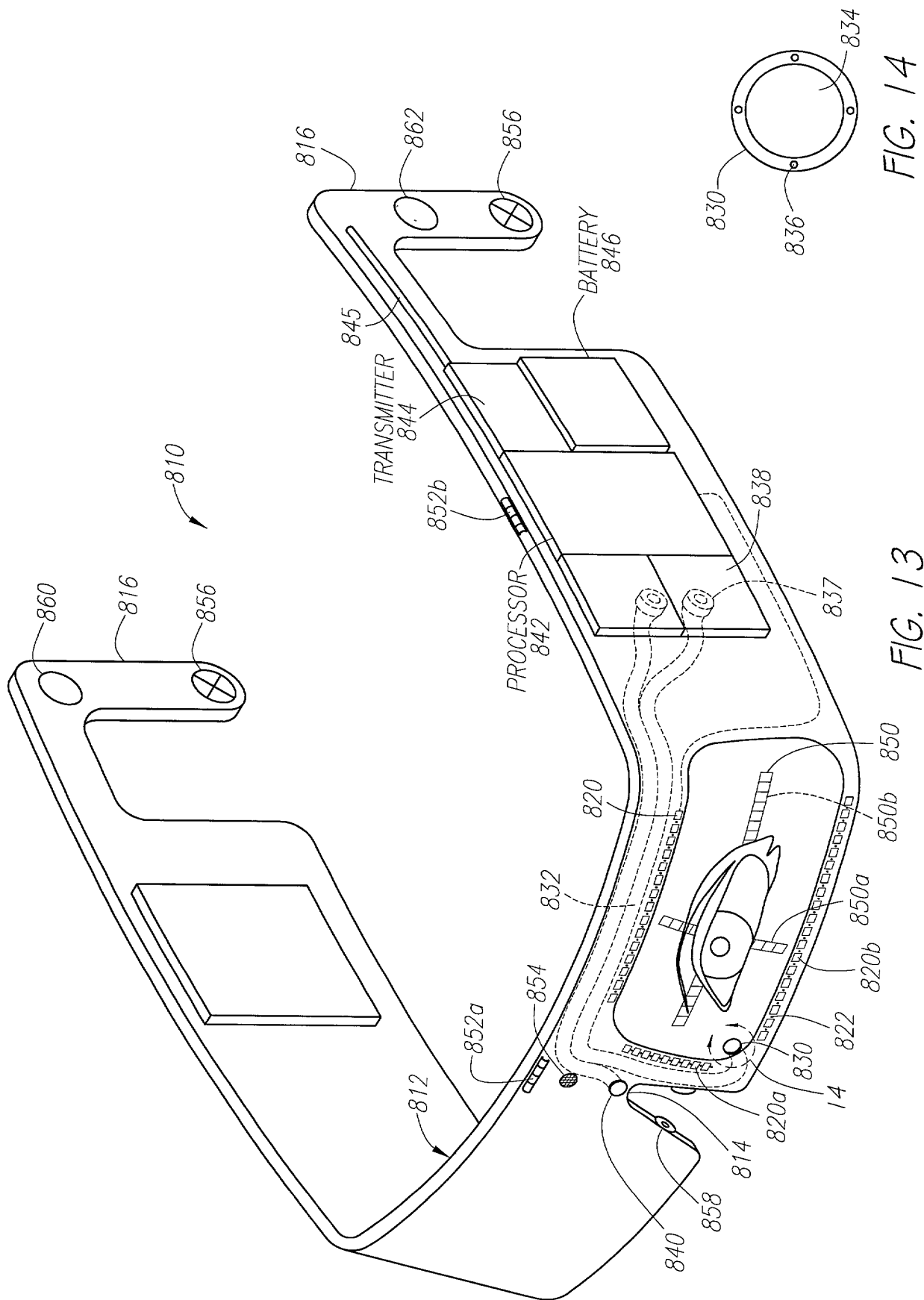


FIG. 12DI

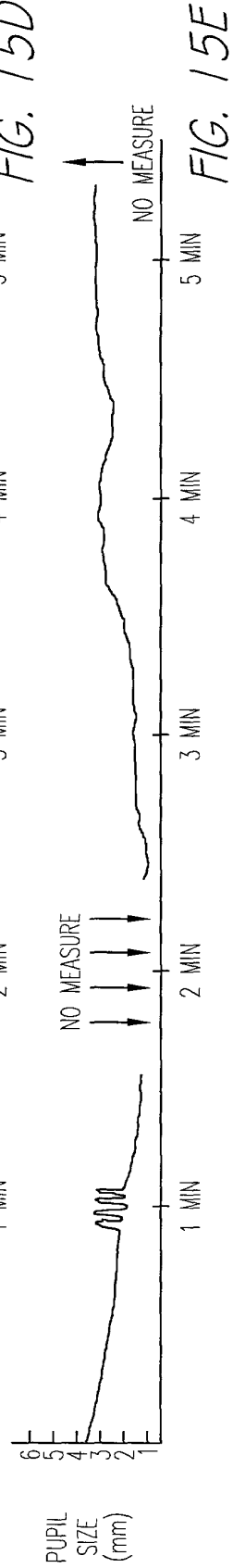
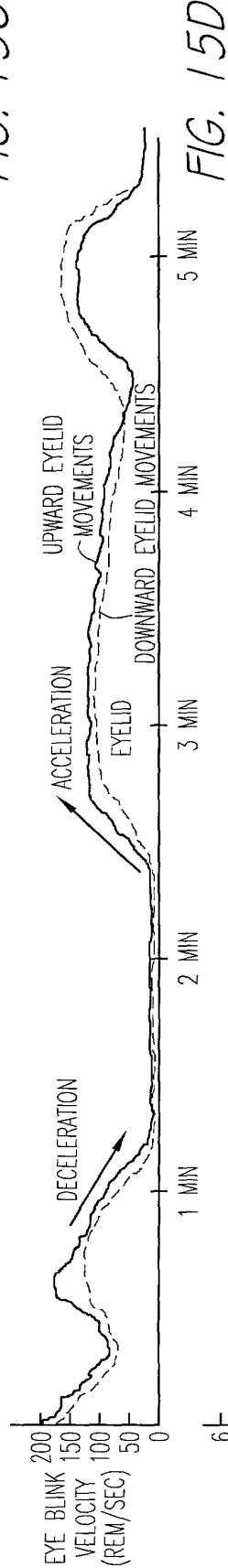
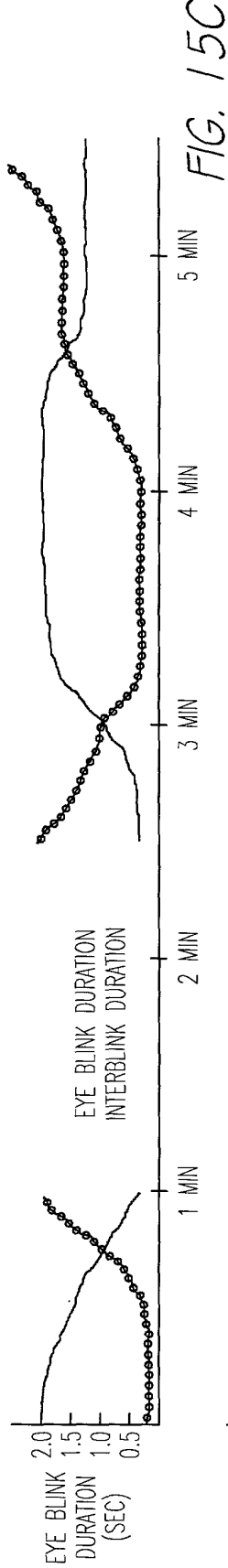
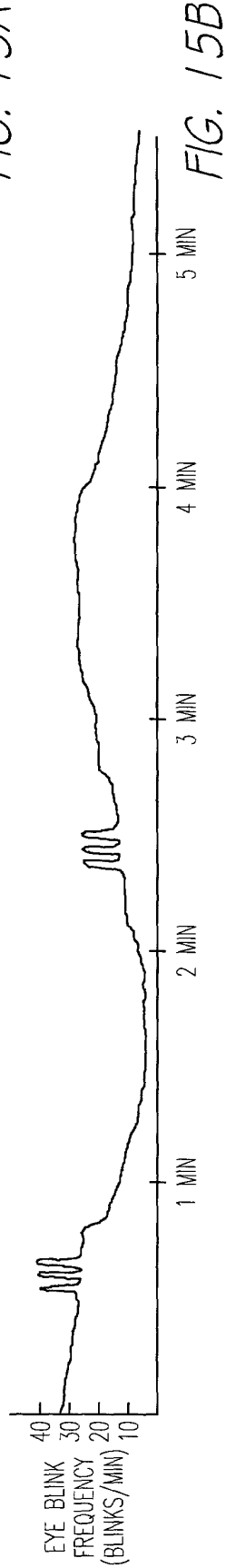
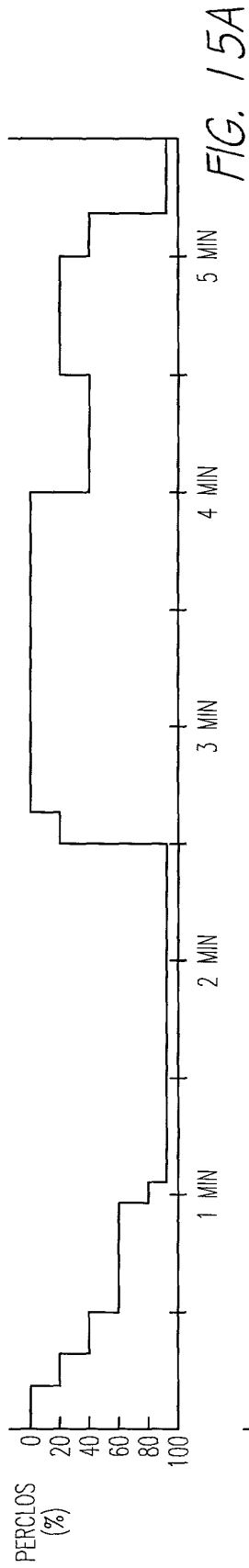
FIG. 12DII

FIG. 12DIII

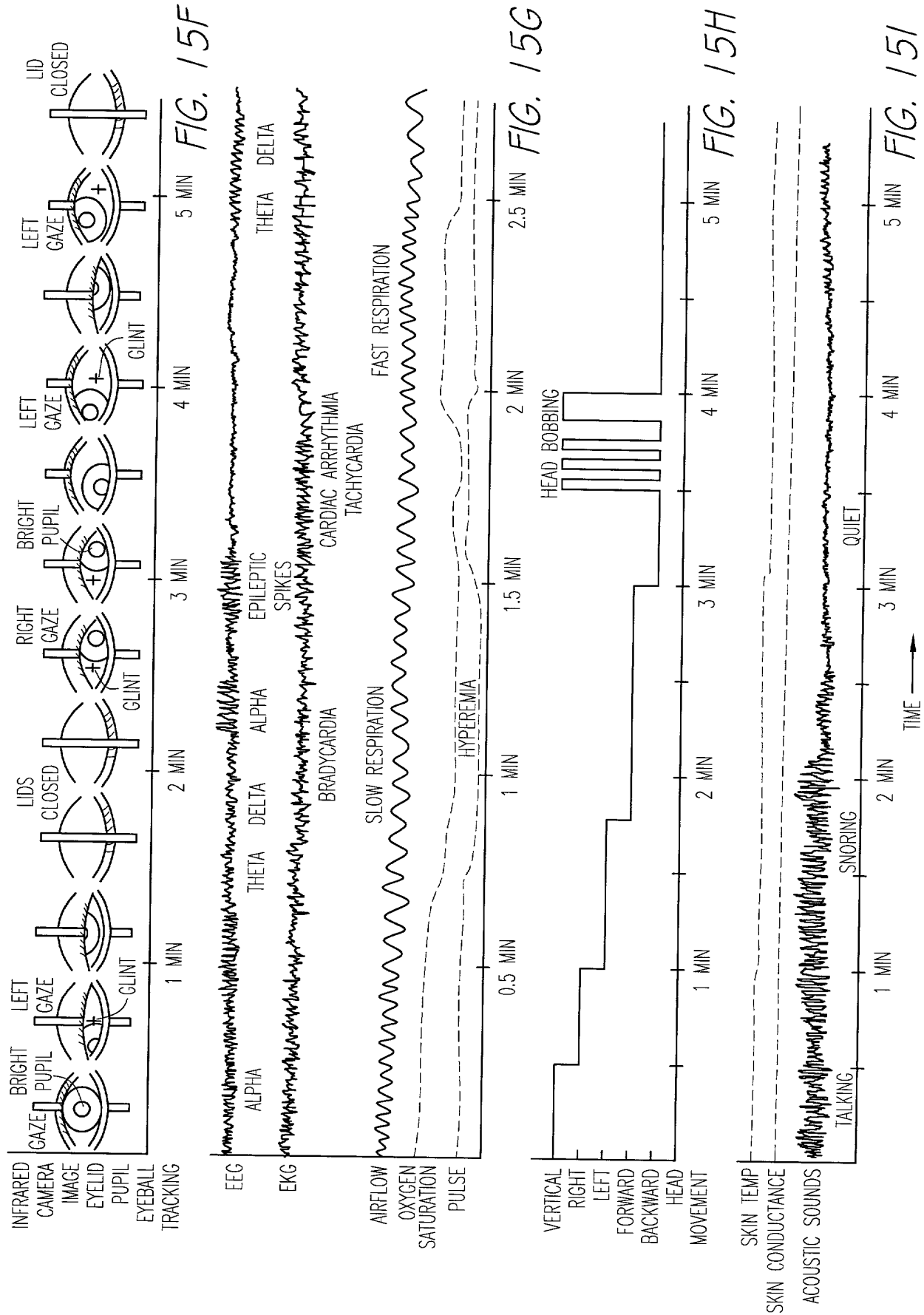
FIG. 12DIV



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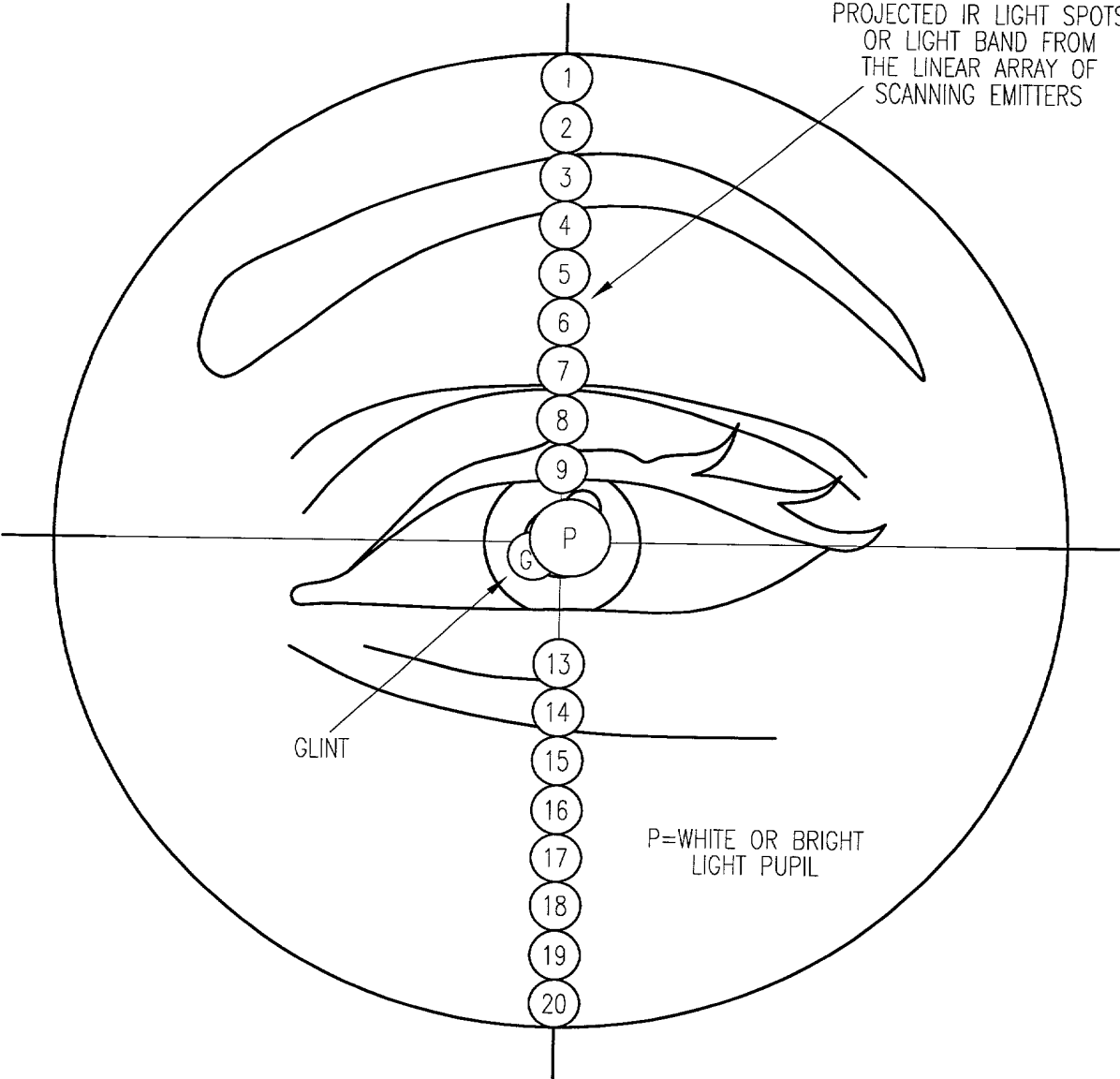


FIG. 16

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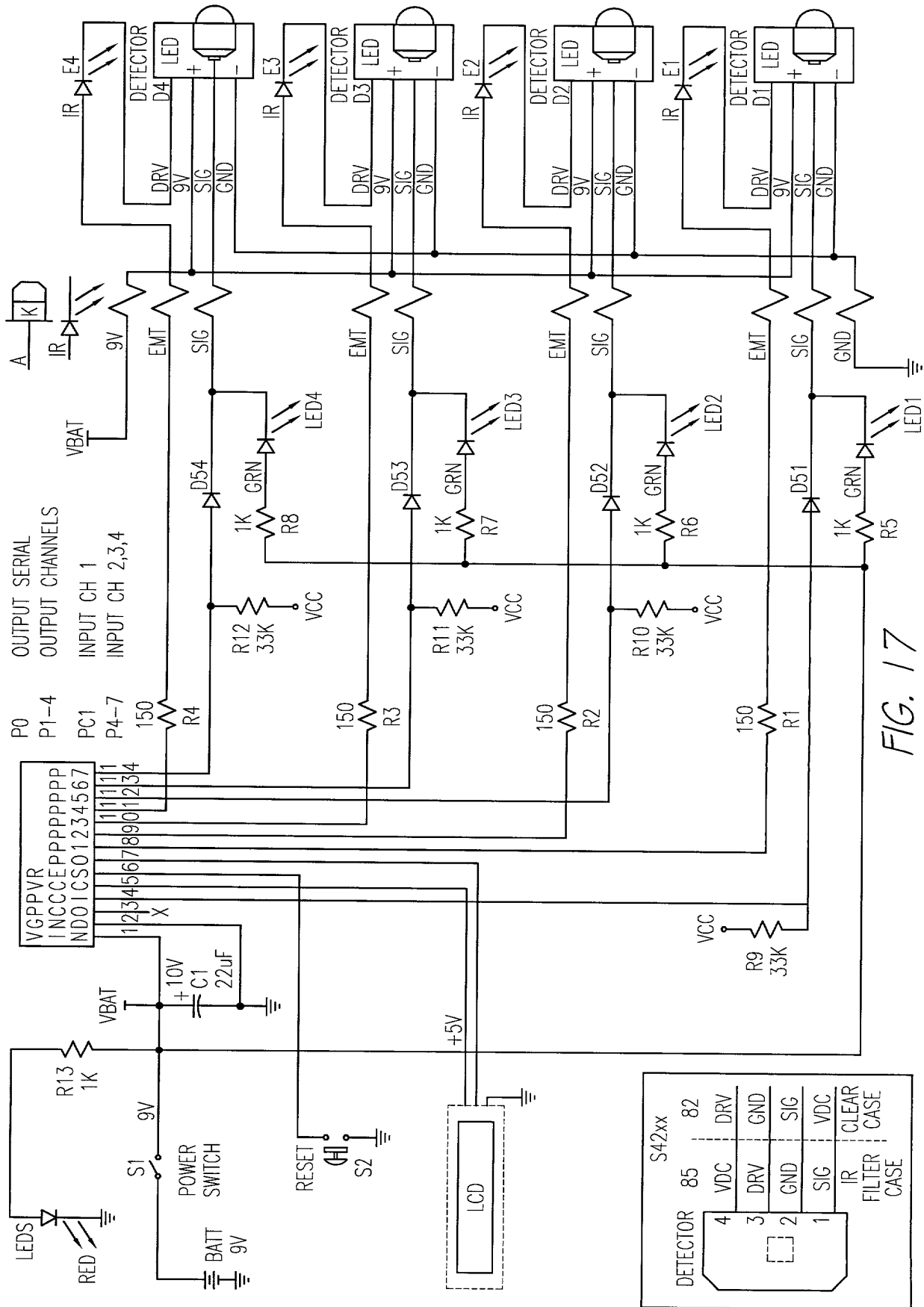


FIG. 17